

## ENGR 361: Statistical Analysis of Engineering Systems (Fall, 2009)

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### Class locations and times

Instructor	Steven Weber (ECE)
Lecture times	Mondays and Wednesdays 3-3:50pm
Lecture room	Randell Hall 121
Instructor office hour	Mondays 4-4:50pm (Bossone 211)
Recitation instructor	John MacLaren Walsh
Recitation section 001	Fridays 10-10:50am (Bossone 602)
Recitation section 002	Fridays 11-11:50am (Bossone 602)
Teaching Assistants	Pramod Abichandani and Wendi Chen
TA office hours	Mondays 10am-12pm (Pramod) and Tuesdays 10am-12pm (Wendi)
TA office locations	Bossone 333 (Data Fusion Laboratory)

### Description

Probability, random variables, random samples, point estimation, statistical intervals.

### Textbook

Title	Probability and statistics for engineering and the sciences
Author	Jay L. Devore
Publisher	Thomson
ISBN	0495382175
Edition	7th

### Course logistics

- Website
  - We will use Drexel's **BB/Vista** course management website for this class extensively.
  - I will mail you important information regarding the class through this system. Please make sure you setup the system to forward BB/Vista emails to an account you check regularly.
  - Lecture notes, homework, solutions, etc. will be posted on the main course page, grouped by week.
  - The gradebook will hold your homework, worksheet, and midterm exam scores.
- Lectures
  - **Partial** lecture notes will be posted on the website **after** the lecture.
  - Website will indicate what sections of the book each lecture covered.
  - **Please** ask questions. If you are confused, then there is a very good chance someone else in the class is confused as well. Without questions I have little insight regarding class comprehension.
  - **Laptops** are not to be used during lecture without prior approval by the instructor. **Cell phones** are to be turned off or put in silent mode.
- Homework
  - HW is due **in class** one week after it is assigned.

- HW may be handed in late (printed, to the TAs in Bossone 333) up to one week following the due date for a 50% penalty.
- The first HW is practice, it **not** graded.
- We will grade **one** of the HW problems for each assignment, and we **may** indicate to you which HW problems are eligible for grading.
- There are **six** HW's, with the following due dates: HW2 (10/5), HW3 (10/14), HW5 (10/26), HW6 (11/2), HW8 (11/16), HW9 (11/23). The numbering is the week that the homework is assigned.
- Recitations
  - Recitations will be spent completing graded worksheets in class.
  - Recitation worksheets must be handed in by the end of class.
  - You may work in groups of up to three people, you may also work by yourself if you prefer.
  - The first recitation is practice, it is **not** graded.
  - There are **seven** graded worksheet sessions on the following dates: WS3 (10/9), WS5 (10/23), WS6 (10/30), WS7 (11/6), WS8 (11/13), WS9 (11/20), WS11 (12/4).
  - I will **drop** your worst two worksheet grades. Because of this rule, there are **no makeups** for worksheets. If you miss a worksheet session, then that counts as one of your drops.
- Midterm exams
  - There are two midterm exams: one on Friday October 16, and one on Monday November 9.
  - The second midterm exam only covers material following the first midterm exam.
  - Exams will consist of problems for you to solve that are similar to or extensions of problems assigned during homework or recitation.
  - Exams are closed-book and closed notes. You are allowed to bring in a 3" × 5" index card with notes on the front and back. These index cards will be collected along with your exam.
- Final exam
  - The final exam will be held during the week of Monday December 7 - Friday December 11.
  - The final exam is mandatory for all students.
  - The final exam is comprehensive, it will cover the entire course, but with an emphasis on the material since the second midterm exam.
  - I **strongly** prefer not to reschedule final exams. If you have a compelling case you should give me as much notice as possible. Rescheduling requests will be reviewed on a case by case basis.
  - Exams are closed-book and closed notes. You are allowed to bring in a 3" × 5" index card with notes on the front and back. These index cards will be collected along with your exam.
- Office hours
  - Five office hours are available to you each week. One by the instructor (Mondays 4-5pm), and four by the TAs (Mondays and Tuesdays 10am-12pm).
  - Please come to office hours. We are very helpful. Office hours (especially instructor office hours) are often a very under-utilized resource.
  - You may write to us at the following email addresses:
    - \* Steven Weber: [sweber@ece.drexel.edu](mailto:sweber@ece.drexel.edu)
    - \* John MacLaren Walsh: [jwalsh@coe.drexel.edu](mailto:jwalsh@coe.drexel.edu)
    - \* Pramod Abichandani: [pramod@minerva.ece.drexel.edu](mailto:pramod@minerva.ece.drexel.edu)
    - \* Wendi Chen: [wc73@drexel.edu](mailto:wc73@drexel.edu)

**Grading**

Homework	20%
Recitation worksheets	20%
Midterm Exam1	15%
Midterm Exam2	15%
Final Exam	30%

Your course letter grade will be assigned as follows:

95	100	A
90	94	A-
87	89	B+
83	86	B
80	82	B-
77	79	C+
73	76	C
70	72	C-
65	69	D+
60	64	D
0	59	F

**Academic Dishonesty**

The Drexel University policy on academic dishonesty will be strictly enforced. Plagiarism, fabrication, and cheating will, at the discretion of the instructor, constitute grounds for failure of the course.

**Course calendar**

<b>Date</b>	<b>Notes</b>
M 9/21	Lecture1M, HW1 assigned (practice)
W 9/23	Lecture1W
F 9/25	Worksheet1 (practice)
M 9/28	Lecture2M, HW2 assigned
W 9/30	Lecture2W
F 10/2	<b>Drexel University convocation: recitation cancelled</b>
M 10/5	Lecture3M, HW2 due, HW3 assigned
W 10/7	Lecture3W
F 10/9	Worksheet3
M 10/12	<b>Columbus Day holiday: lecture cancelled</b>
W 10/14	Lecture4W, HW3 due
F 10/16	<b>Exam1</b>
M 10/19	Lecture5M, HW5 assigned
W 10/21	Lecture5W
F 10/23	Worksheet5
M 10/26	Lecture6M, HW5 due, HW6 assigned
W 10/28	Lecture6W
F 10/30	Worksheet6
M 11/2	Lecture7M, HW6 due
W 11/4	Lecture7W
F 11/6	Worksheet7
M 11/9	<b>Exam2</b> , HW8 assigned
W 11/11	Lecture8W
F 11/13	Worksheet8
M 11/16	Lecture9M, HW8 due, HW9 assigned
W 11/18	Lecture9W
F 11/20	Worksheet9
M 11/23	Lecture10M, HW9 due
W 11/25	<b>Thanksgiving holiday: lecture cancelled</b>
F 11/27	<b>Thanksgiving holiday: recitation cancelled</b>
M 11/30	Lecture11M
W 12/2	Lecture11W
F 12/4	Worksheet11